

FIG. 1

He and other Gasses

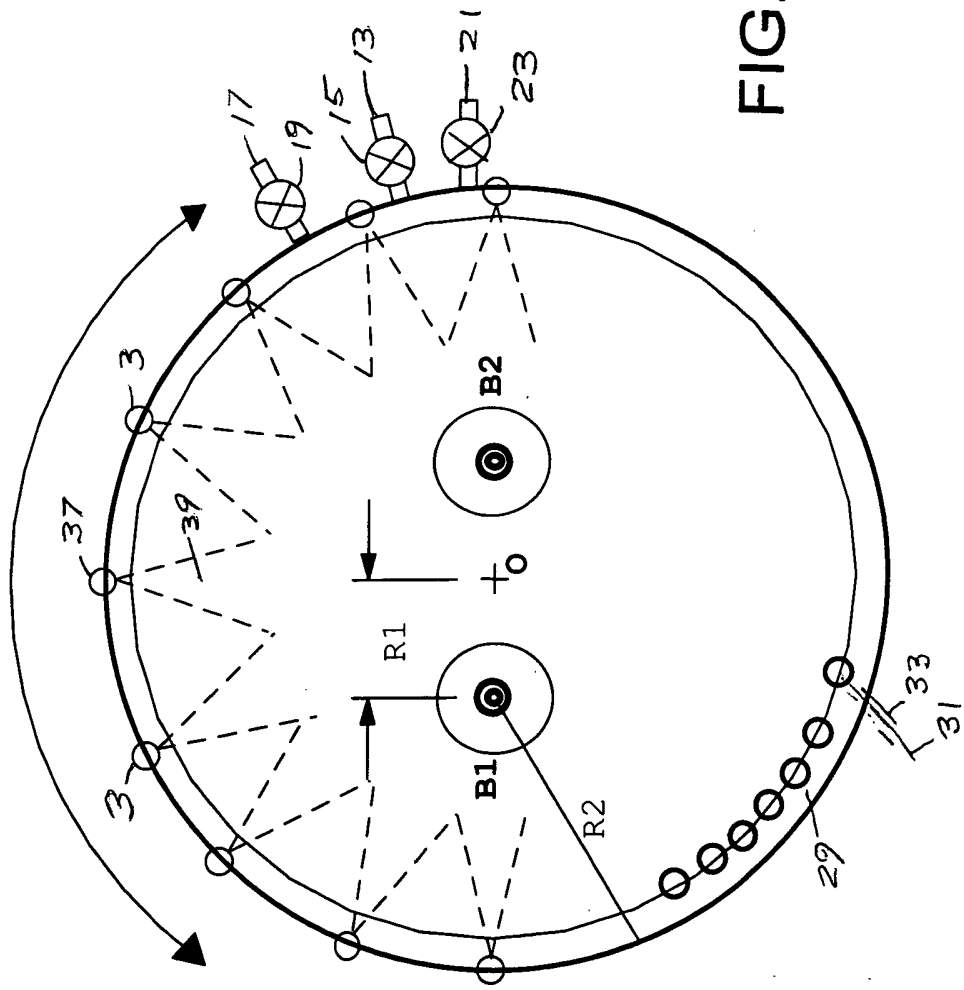
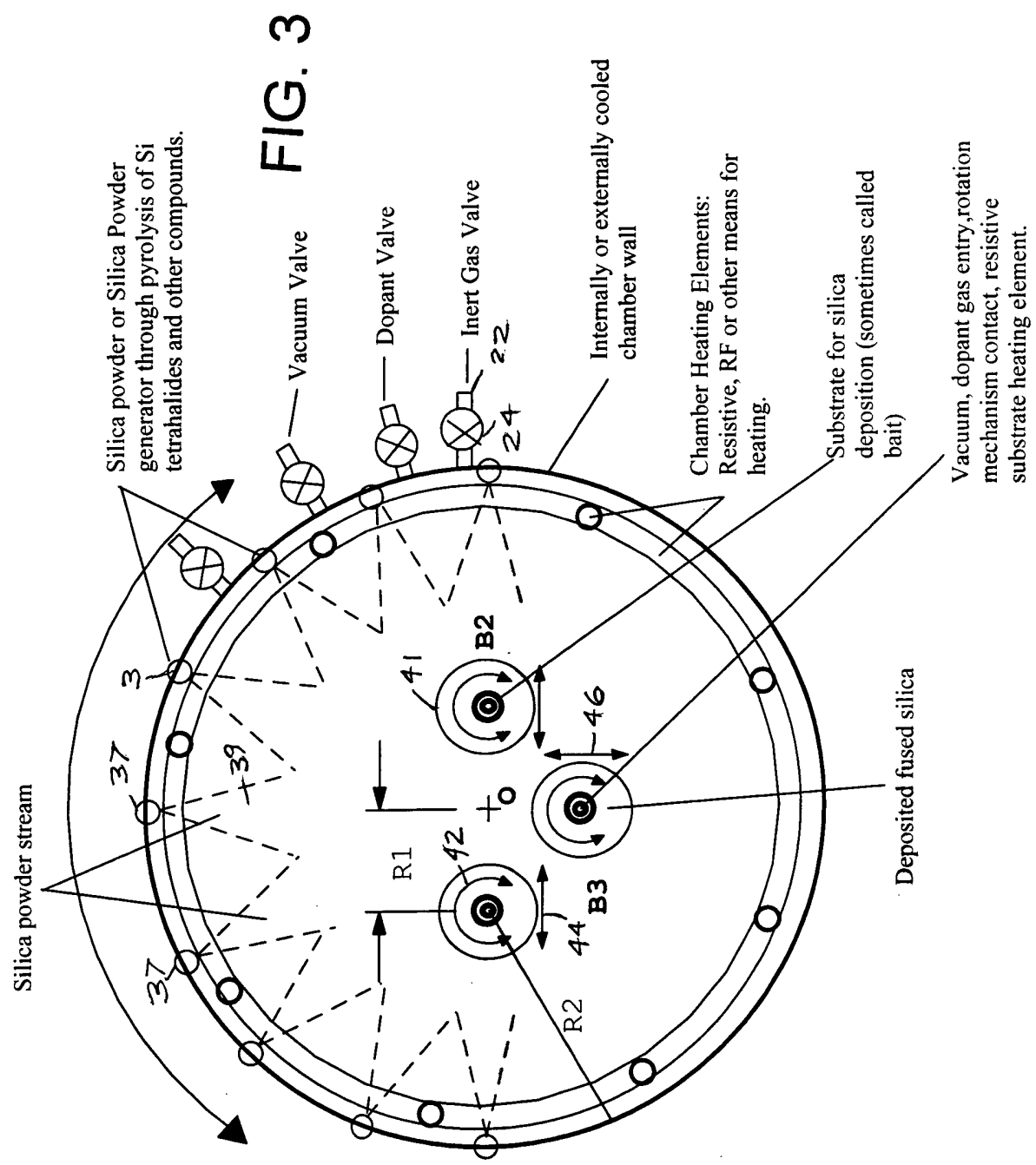


FIG. 2



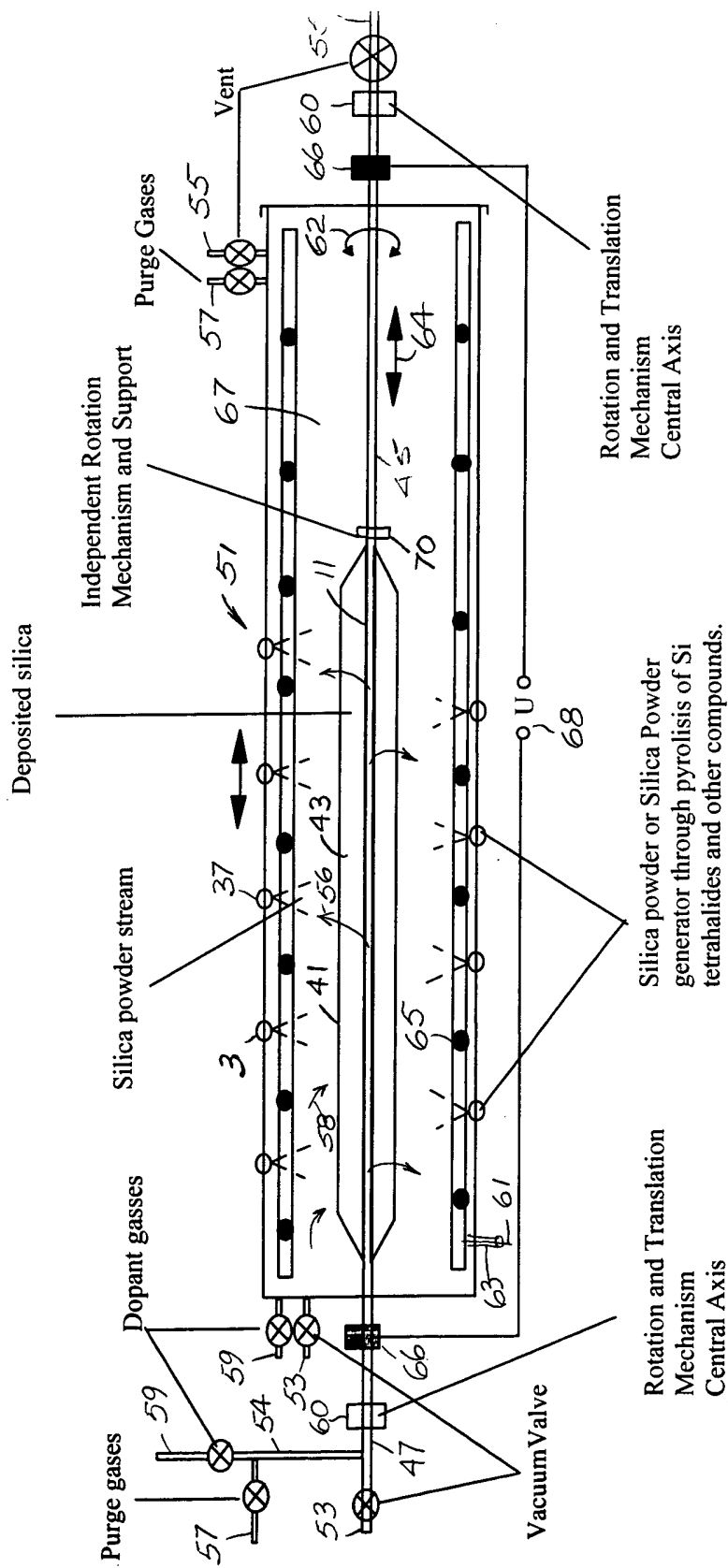


FIG. 4

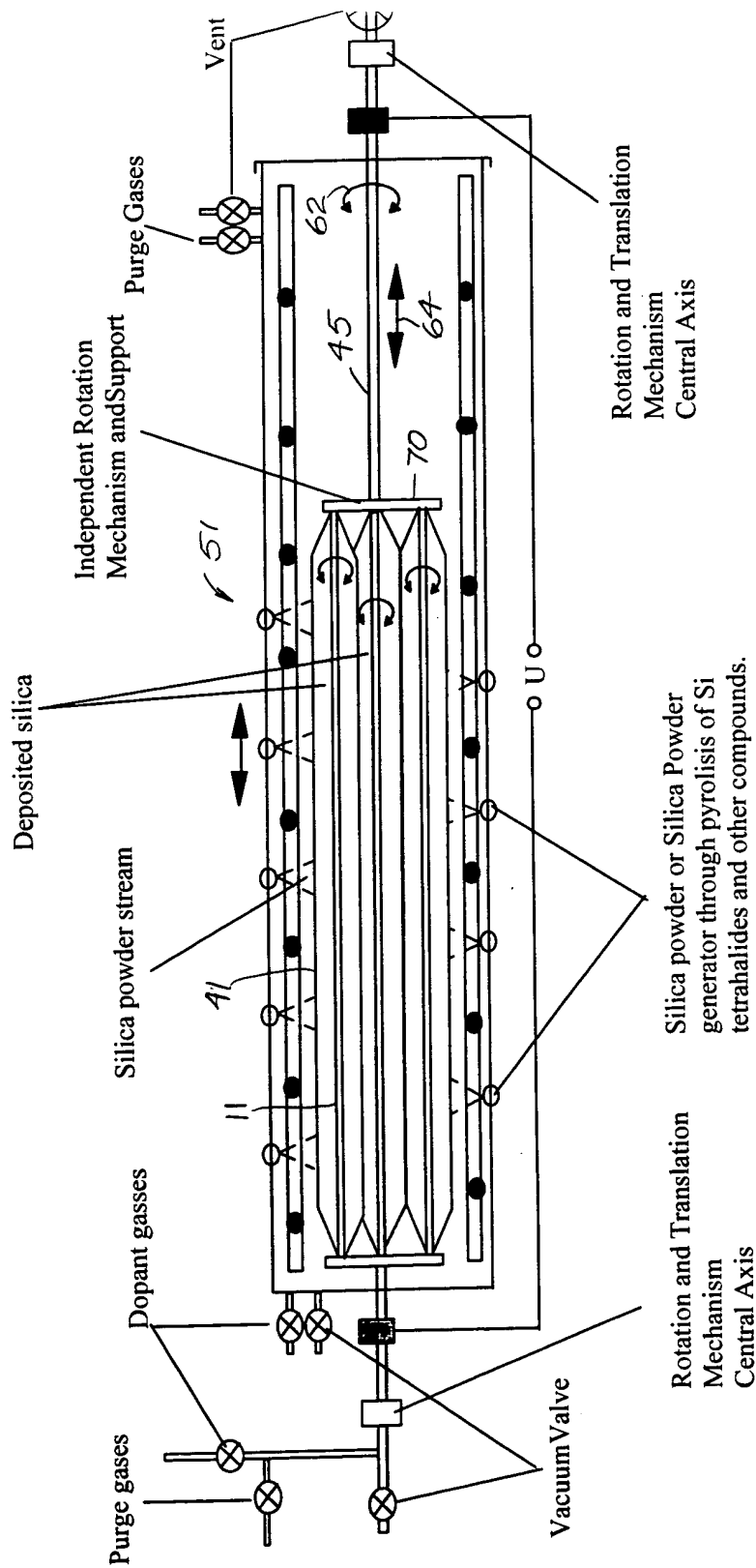


FIG. 5

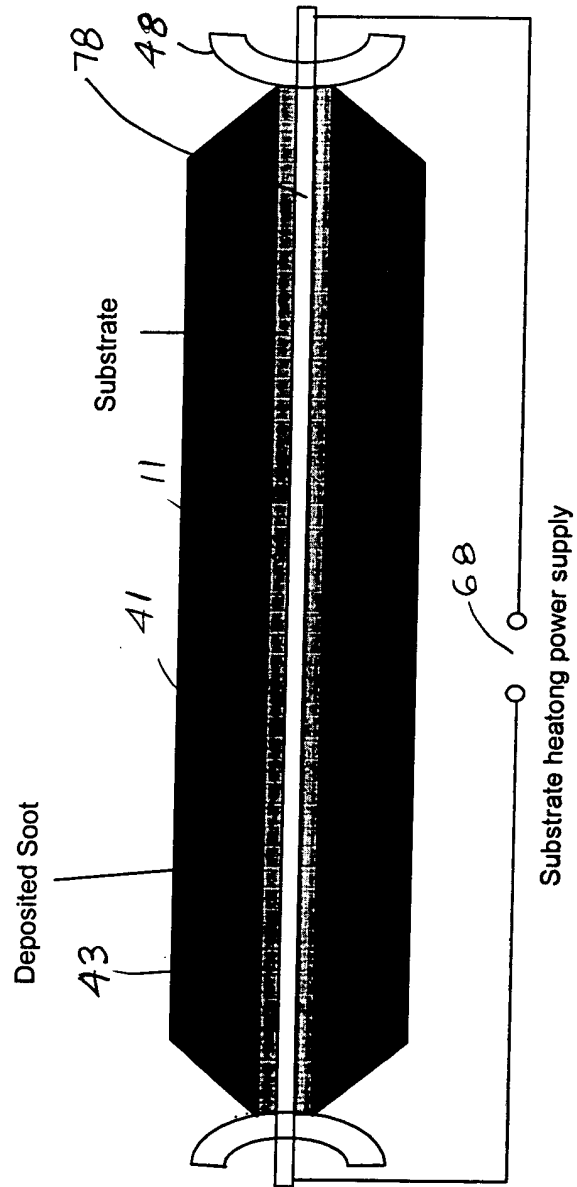
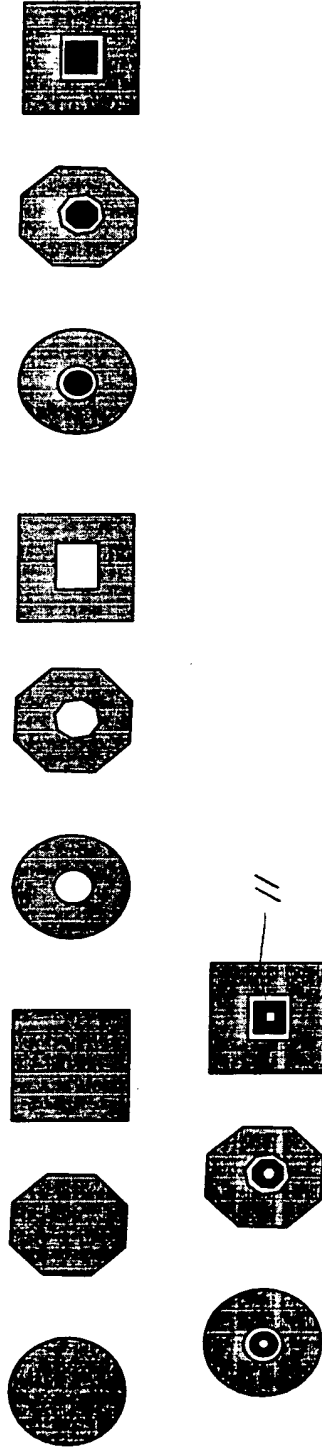


FIG. 6

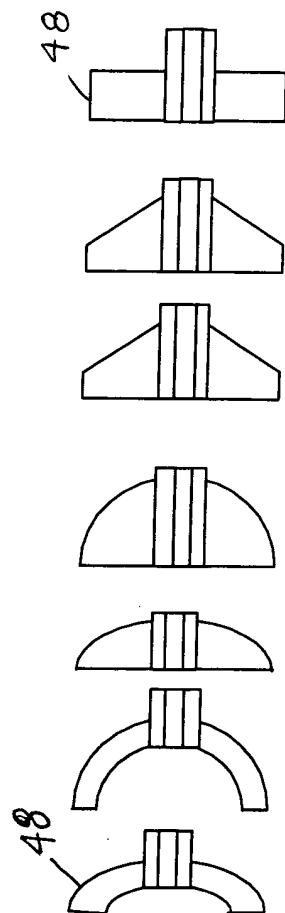
TOP VIEW OF SUBSTRATE CROSS SECTIONS

41



Preform and Substrate cross sections

FIG. 7



Substrate end attachments

FIG. 8

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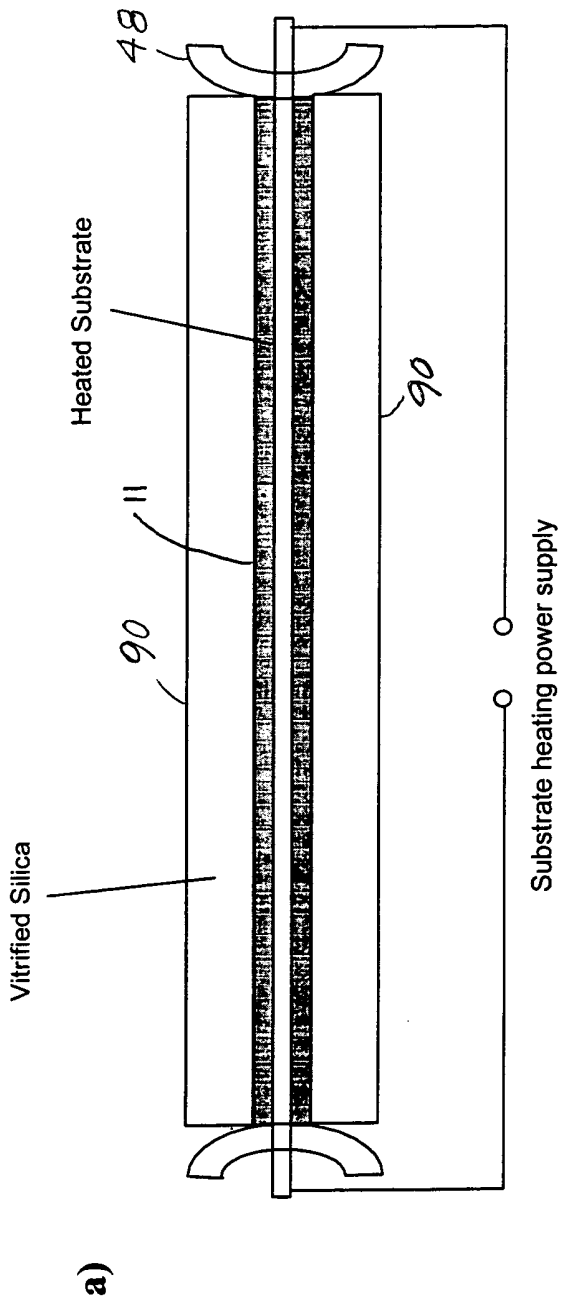
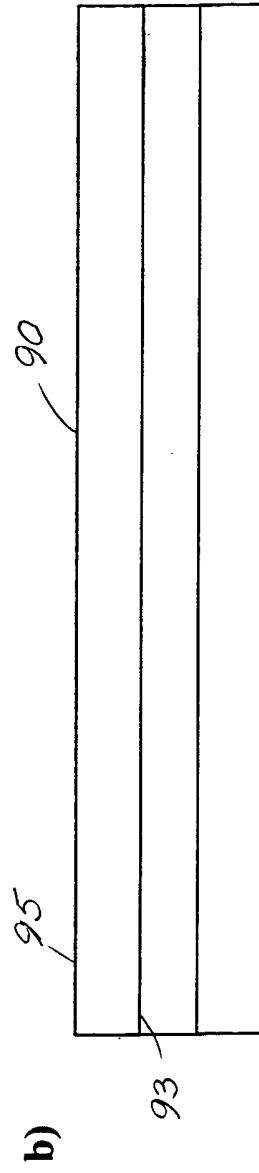


FIG. 9A



Silica Tube Member

FIG. 9B

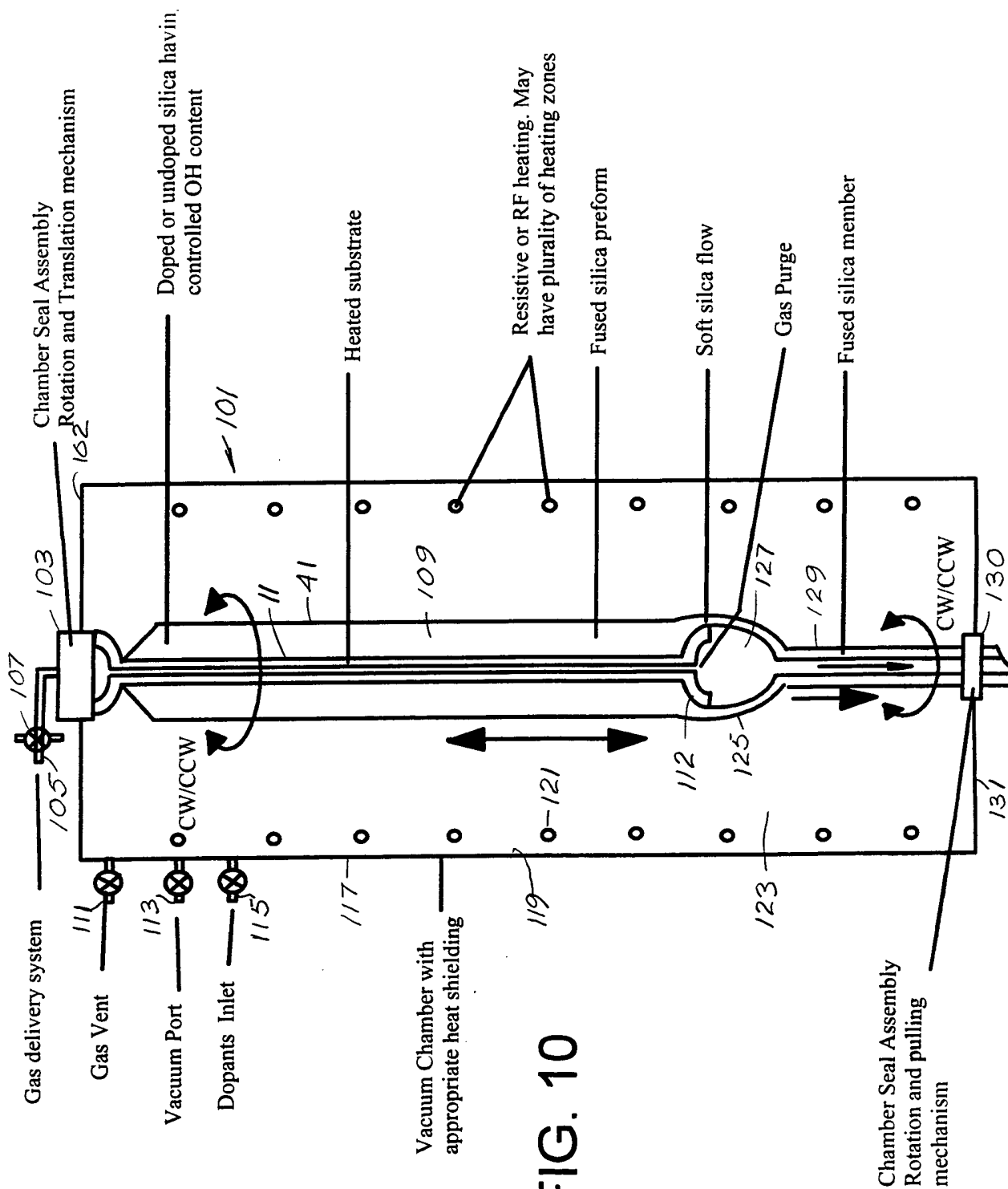


FIG. 10

FIG. 11

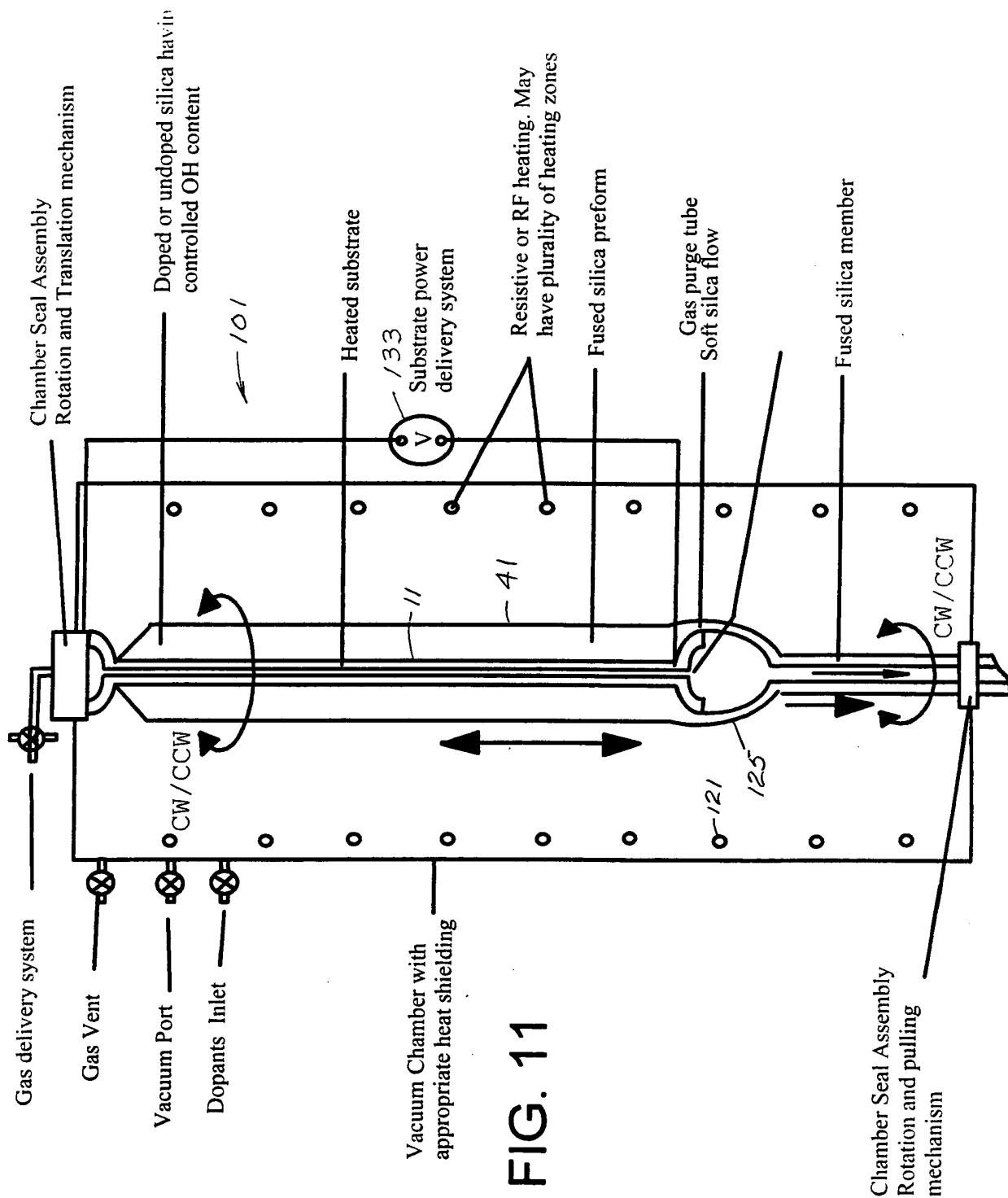


FIG. 11

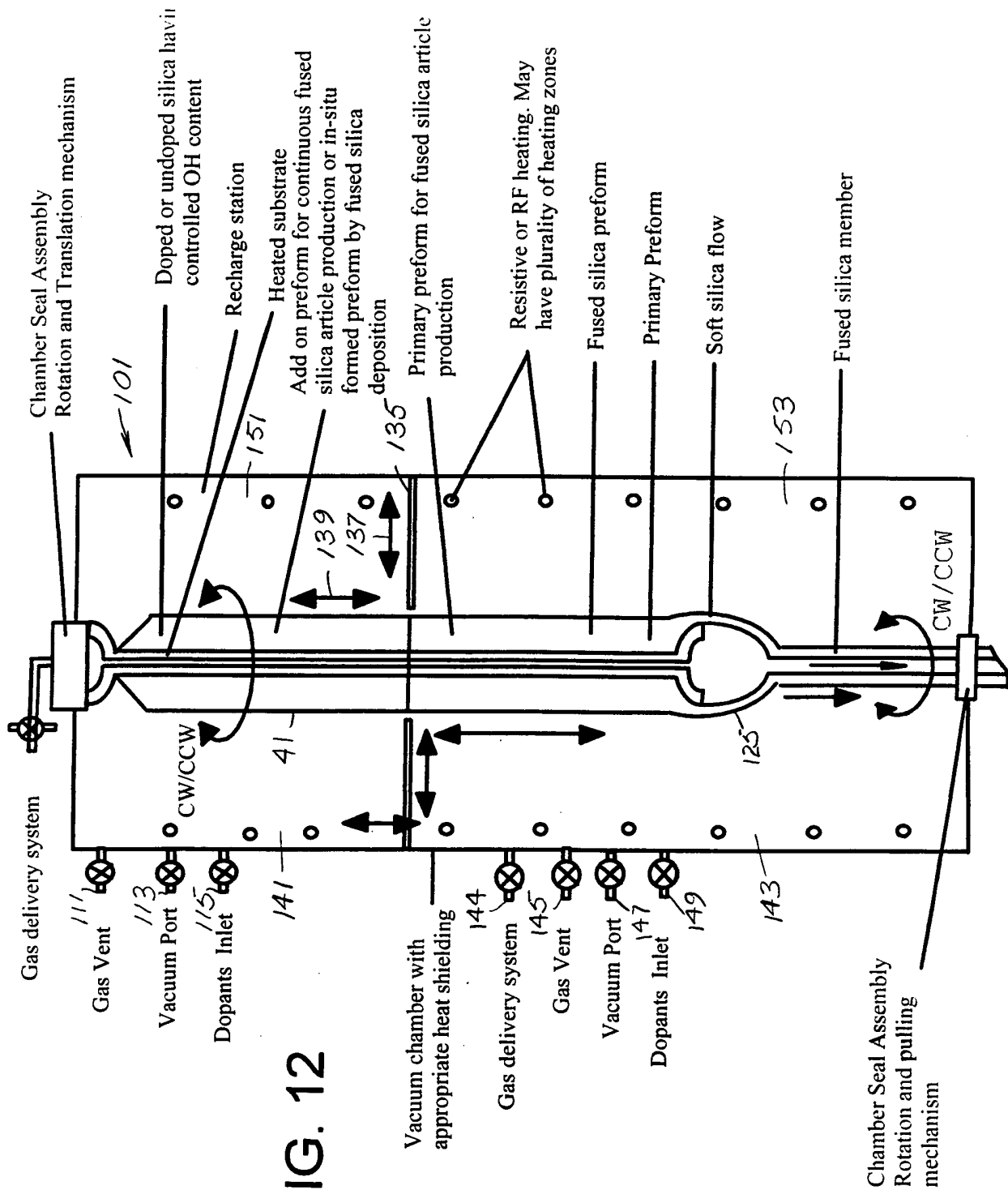


FIG. 12

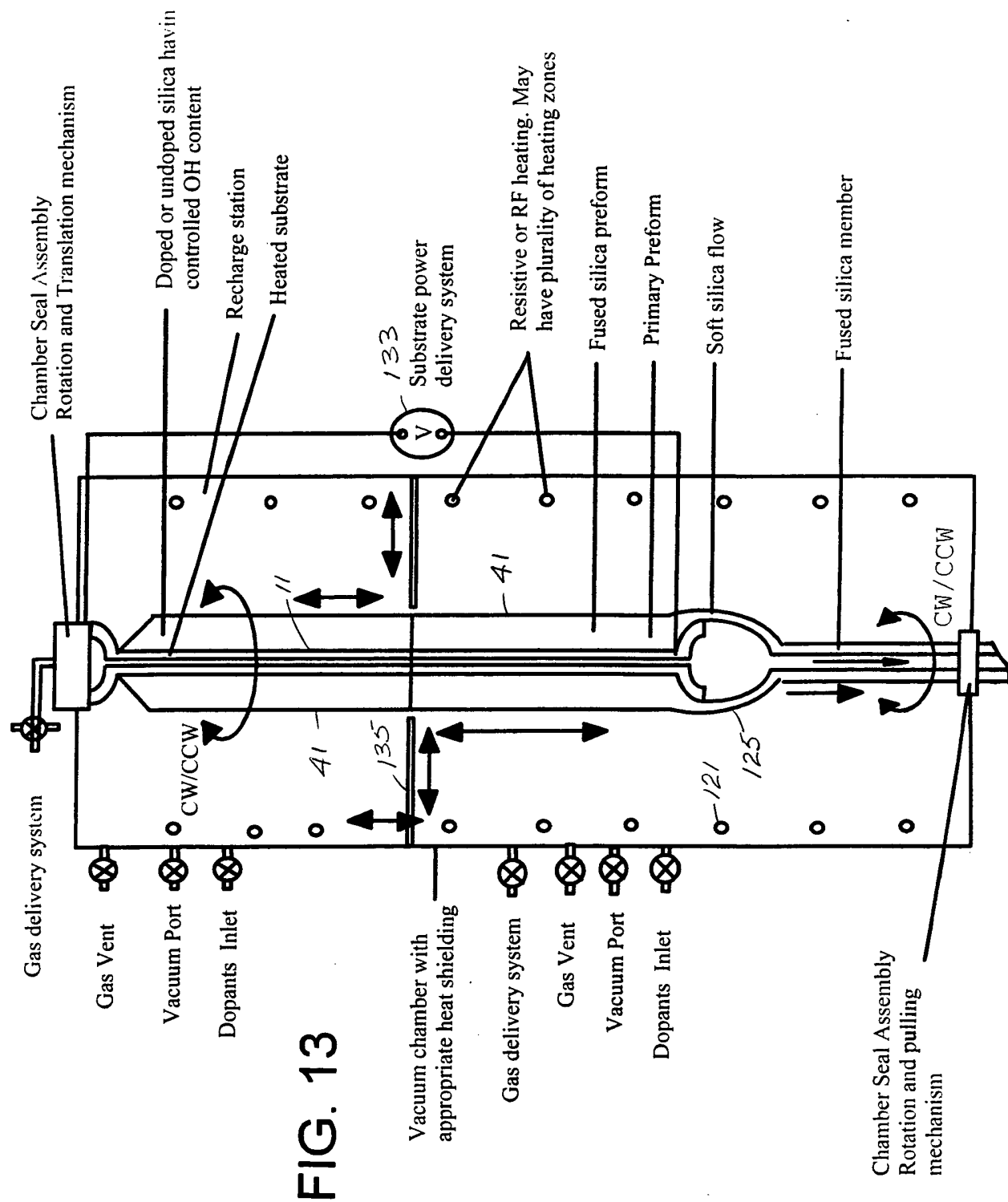


FIG. 13

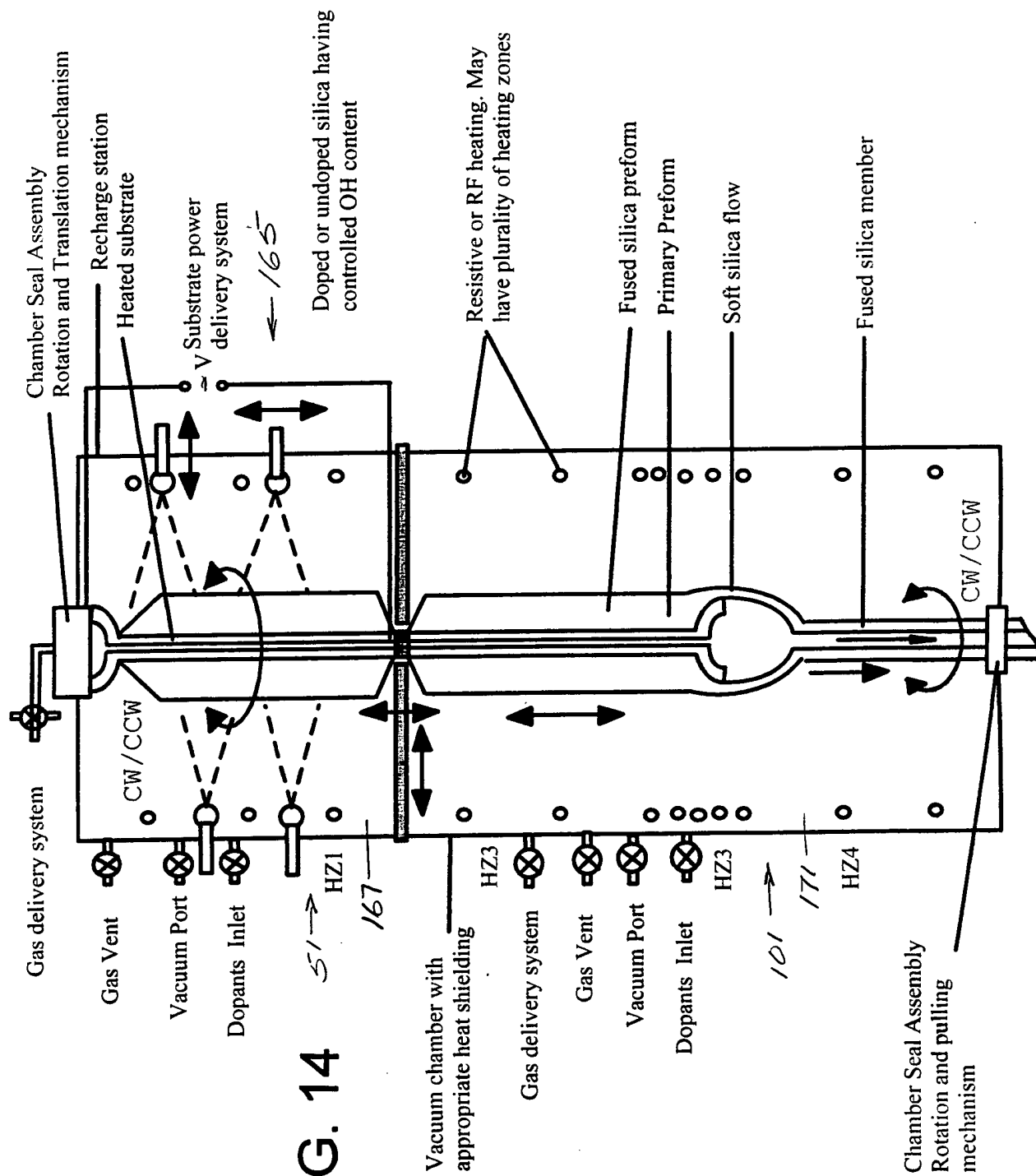


FIG. 14

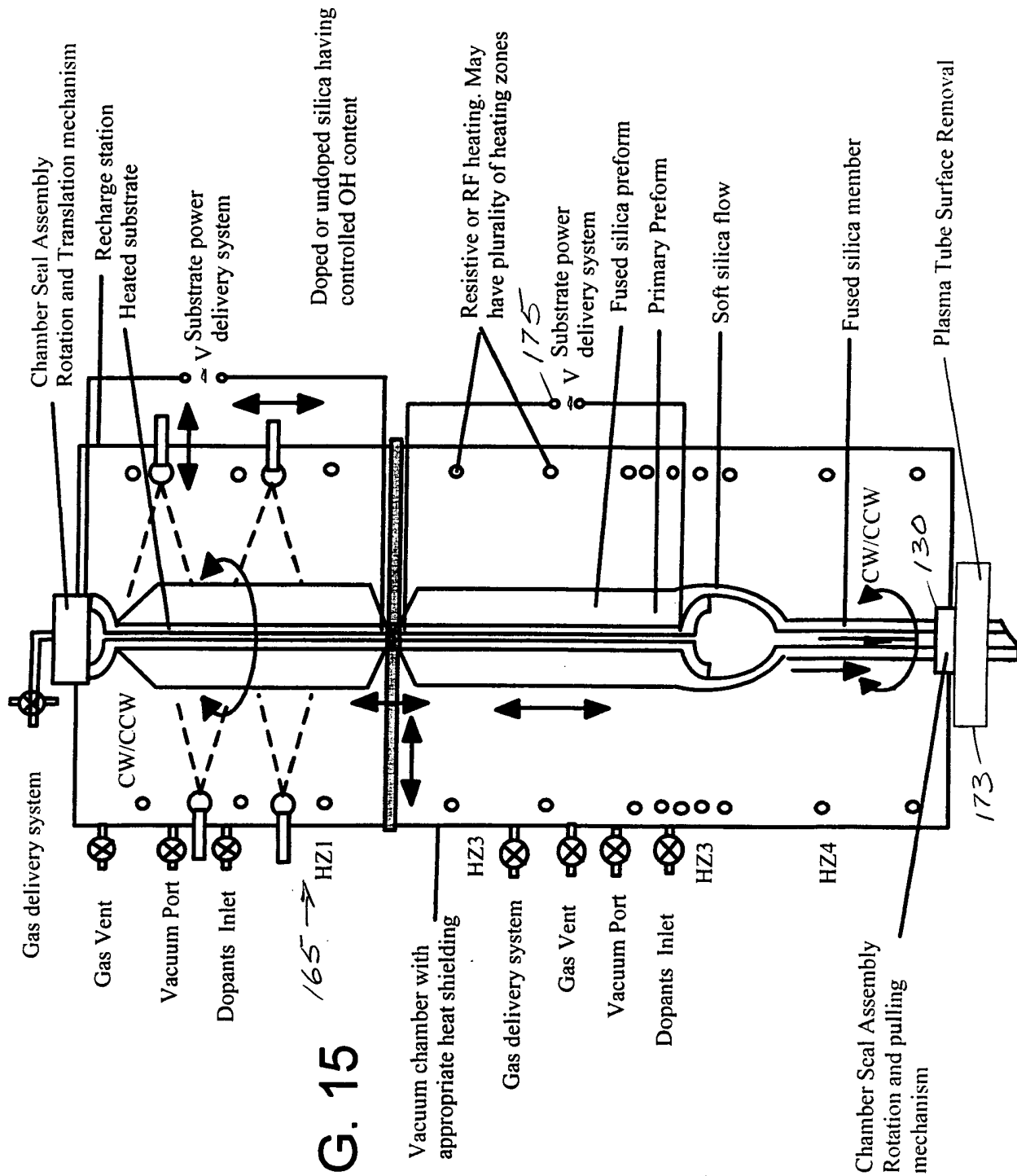
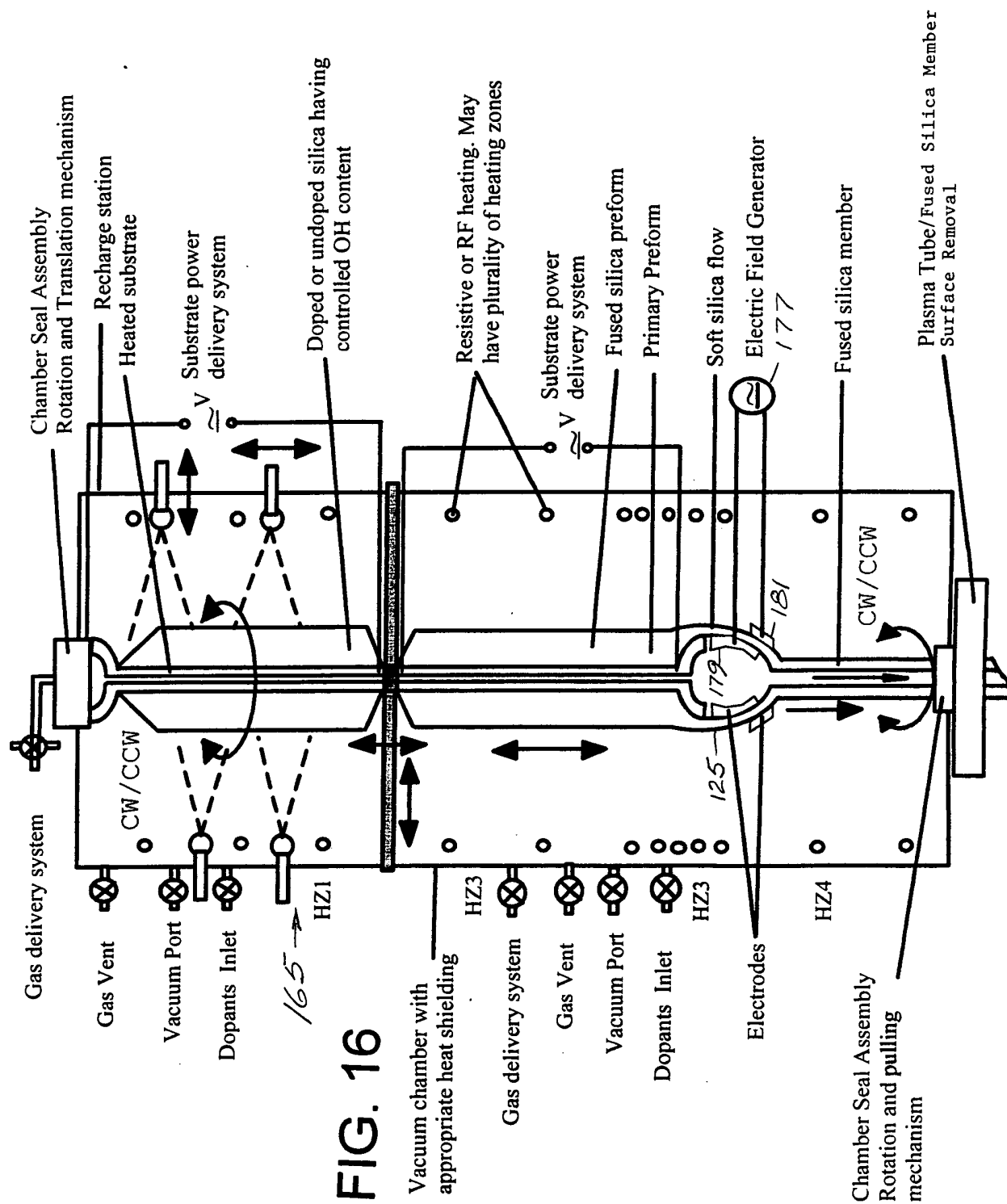
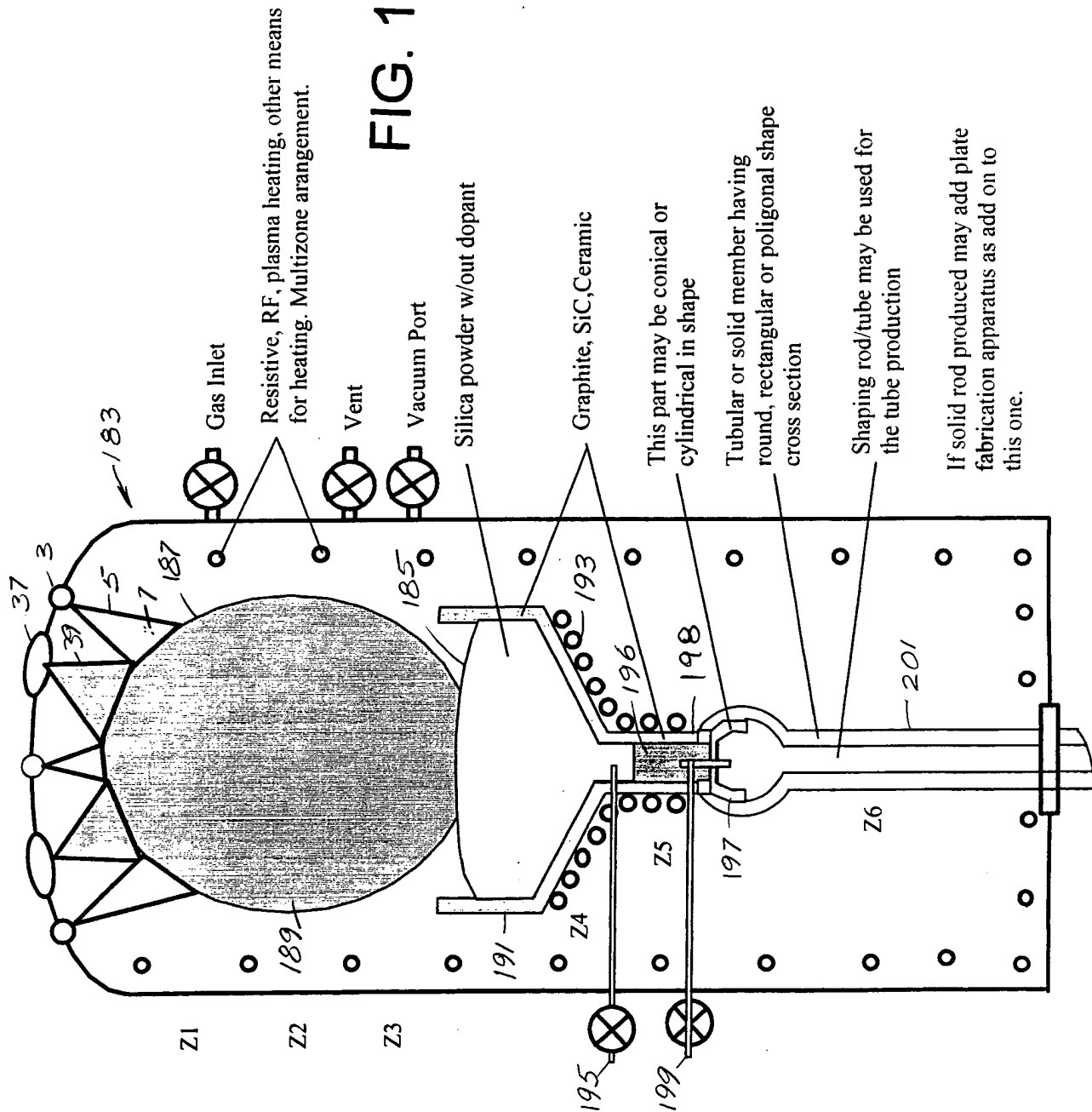
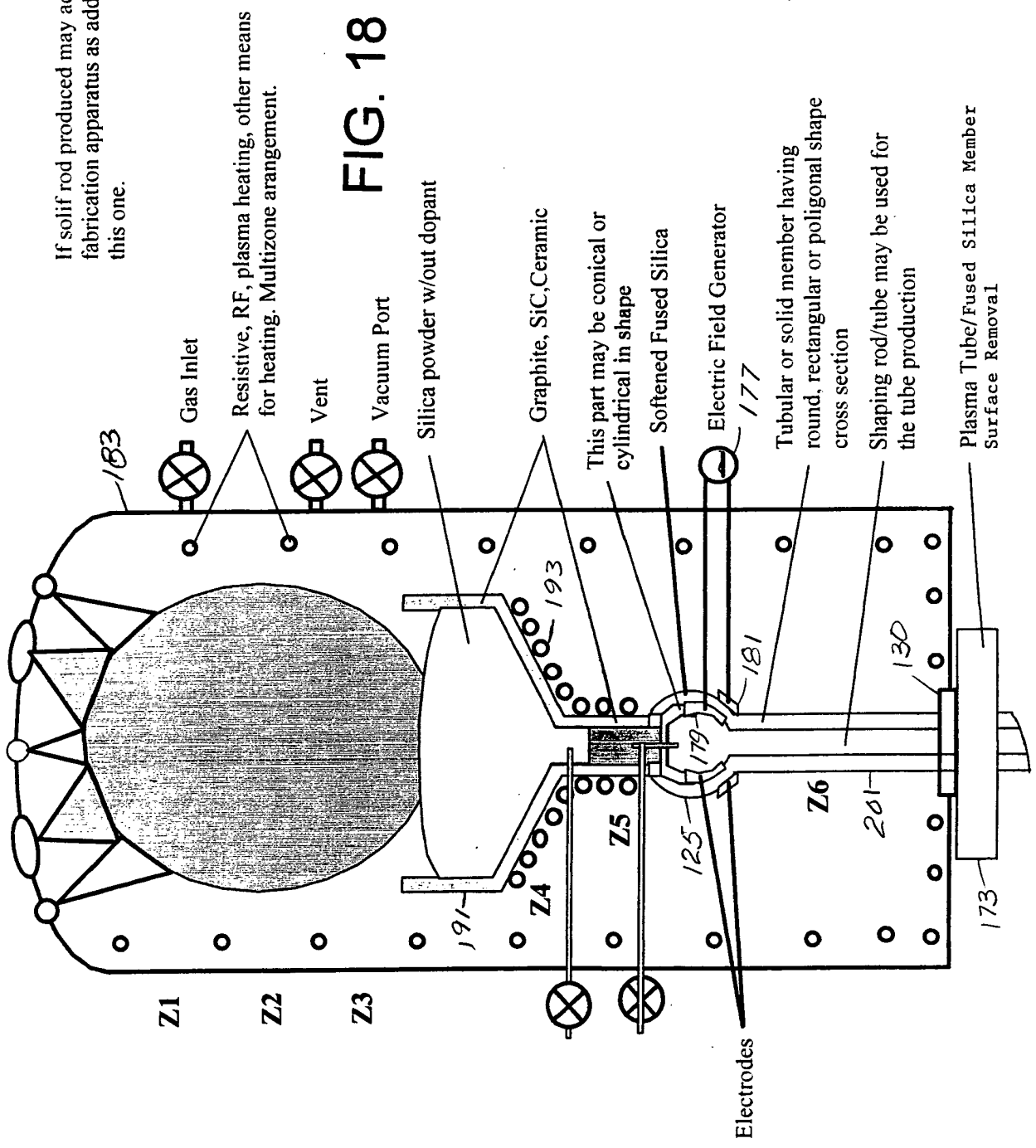
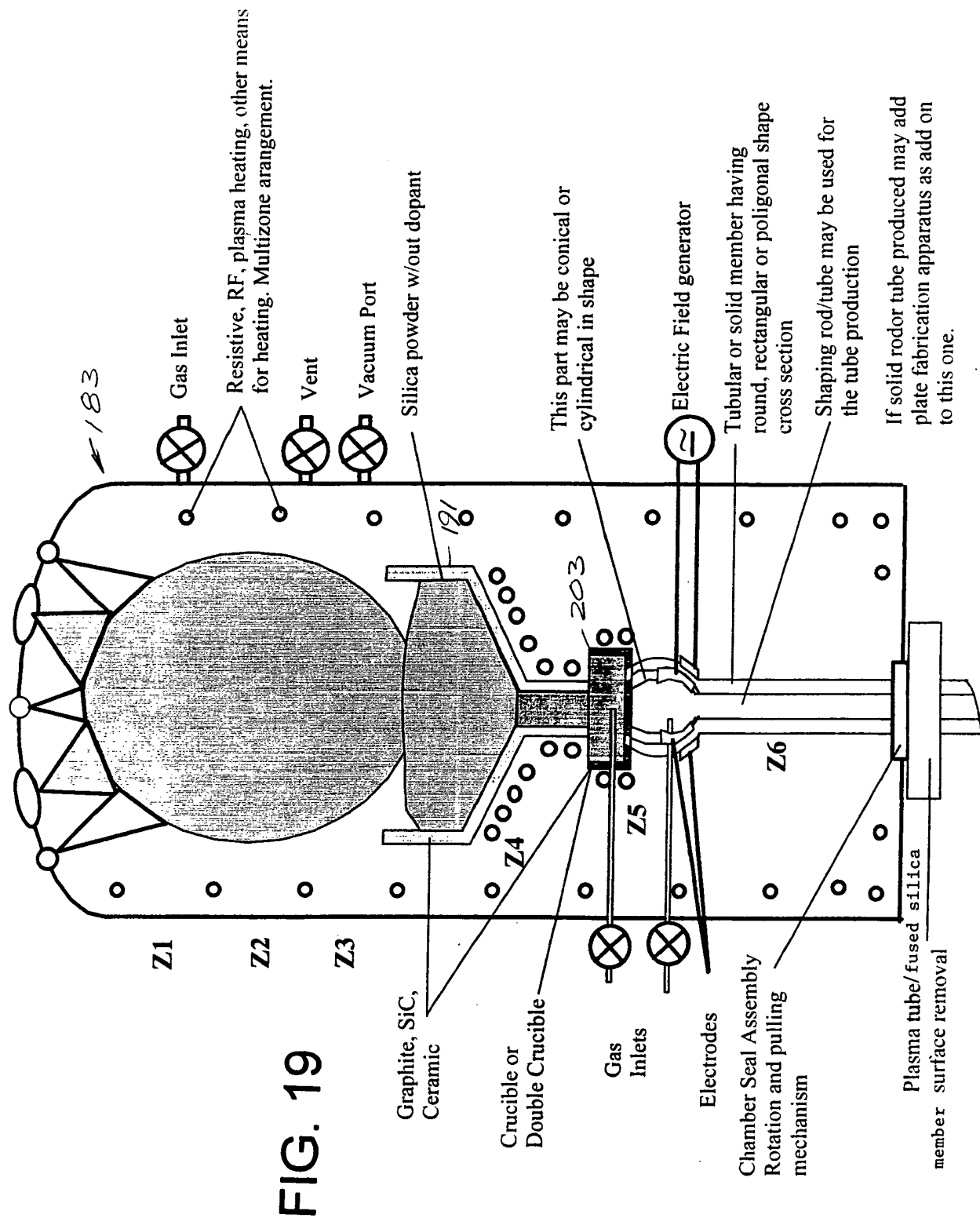


FIG. 15









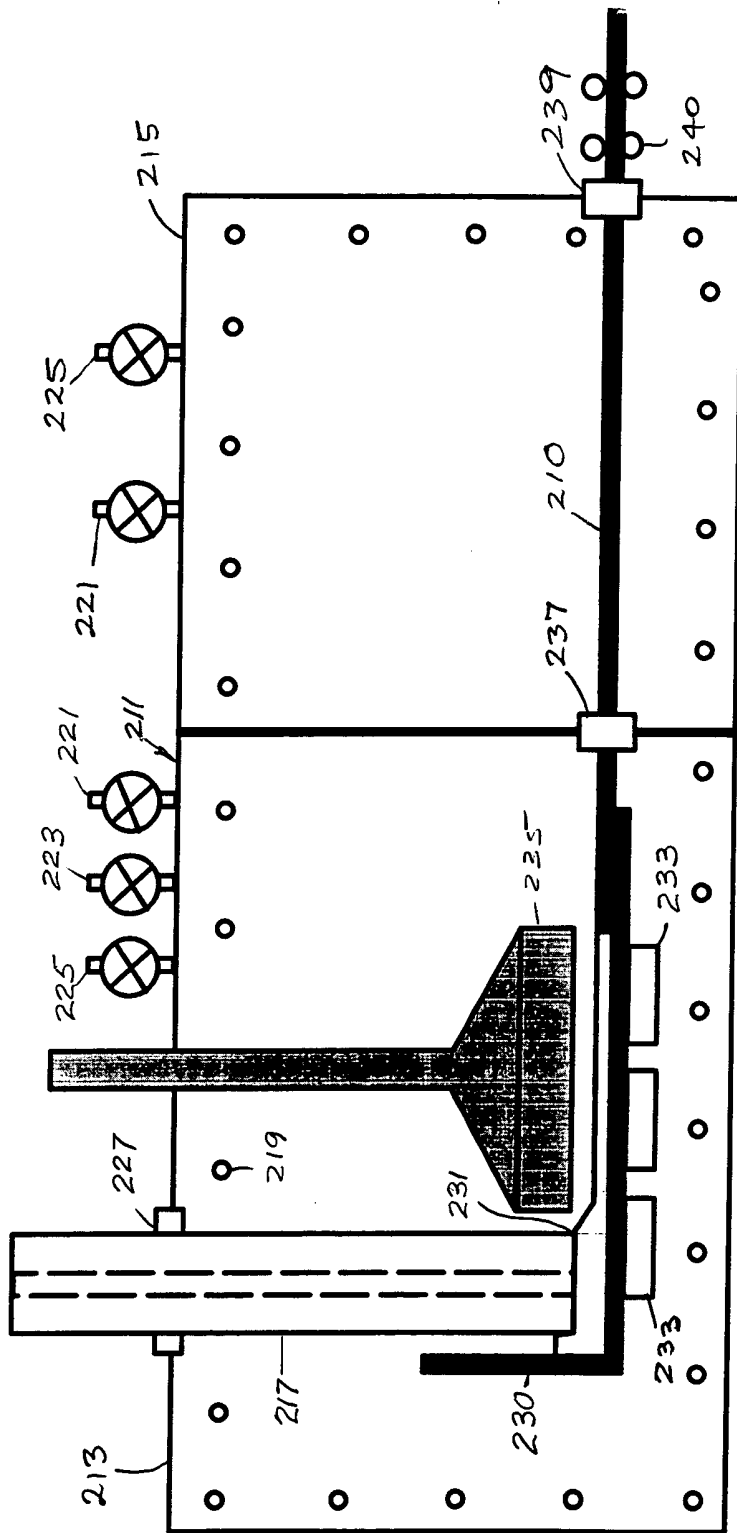


FIG. 20

FIG. 21

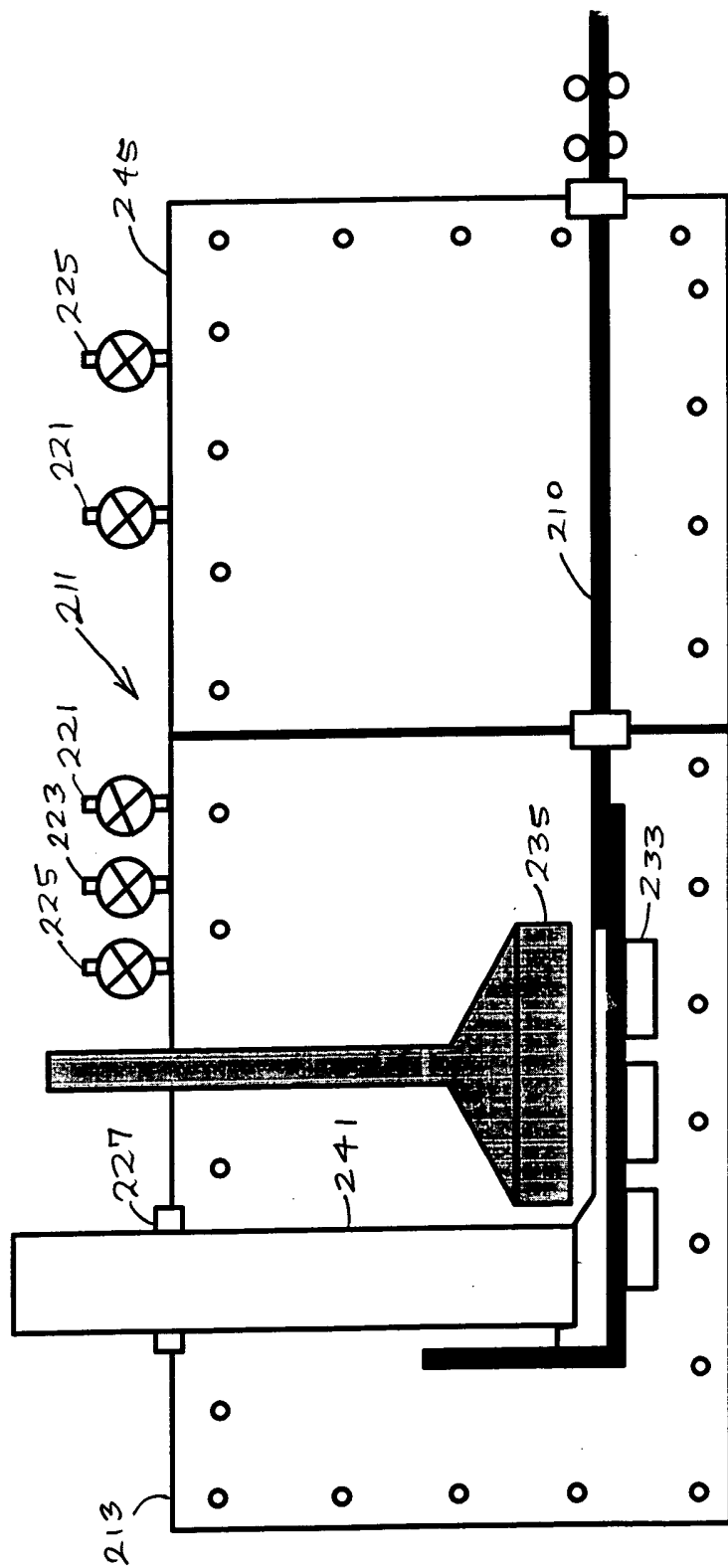


FIG. 21

FIG. 22

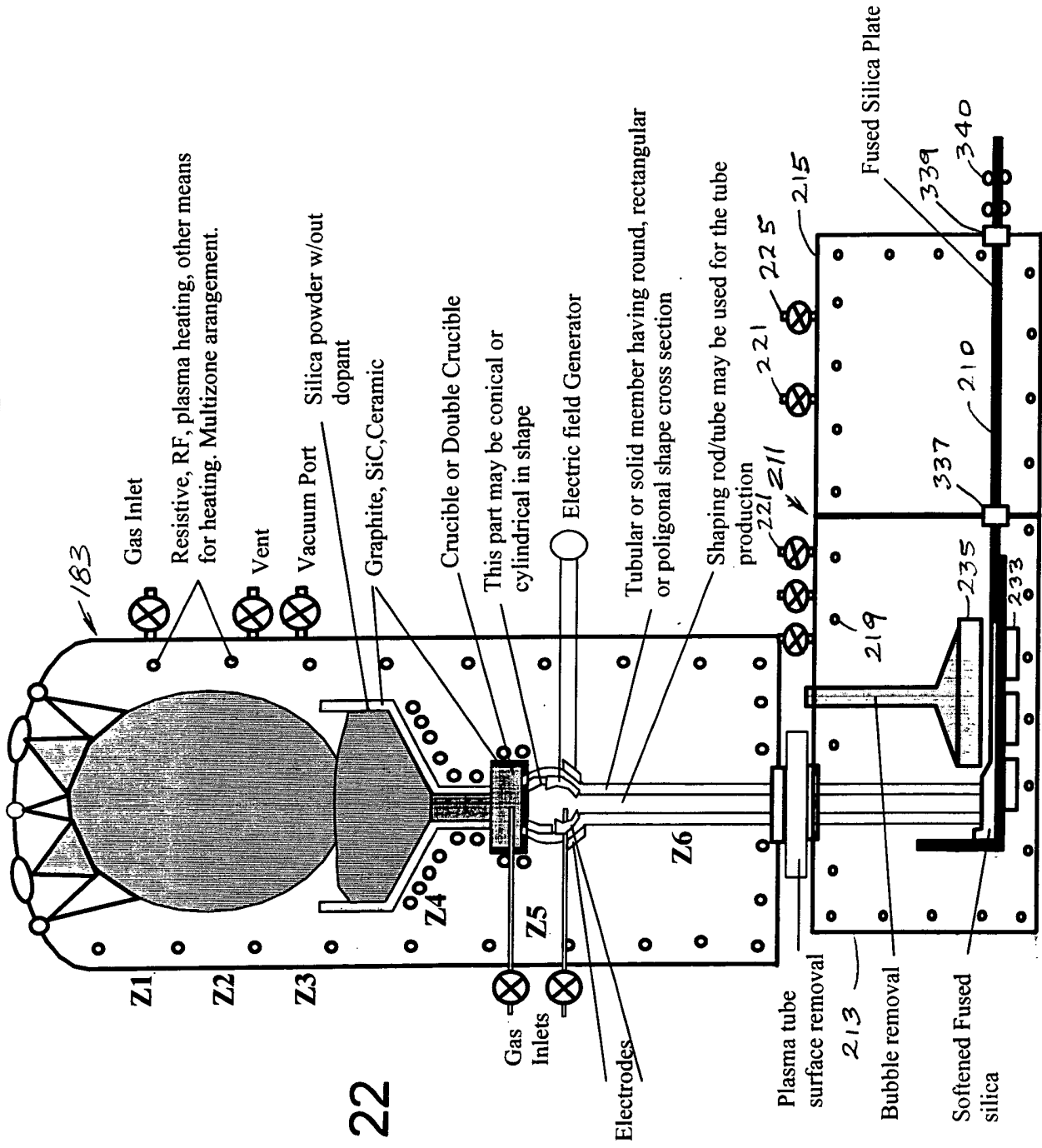


FIG. 22